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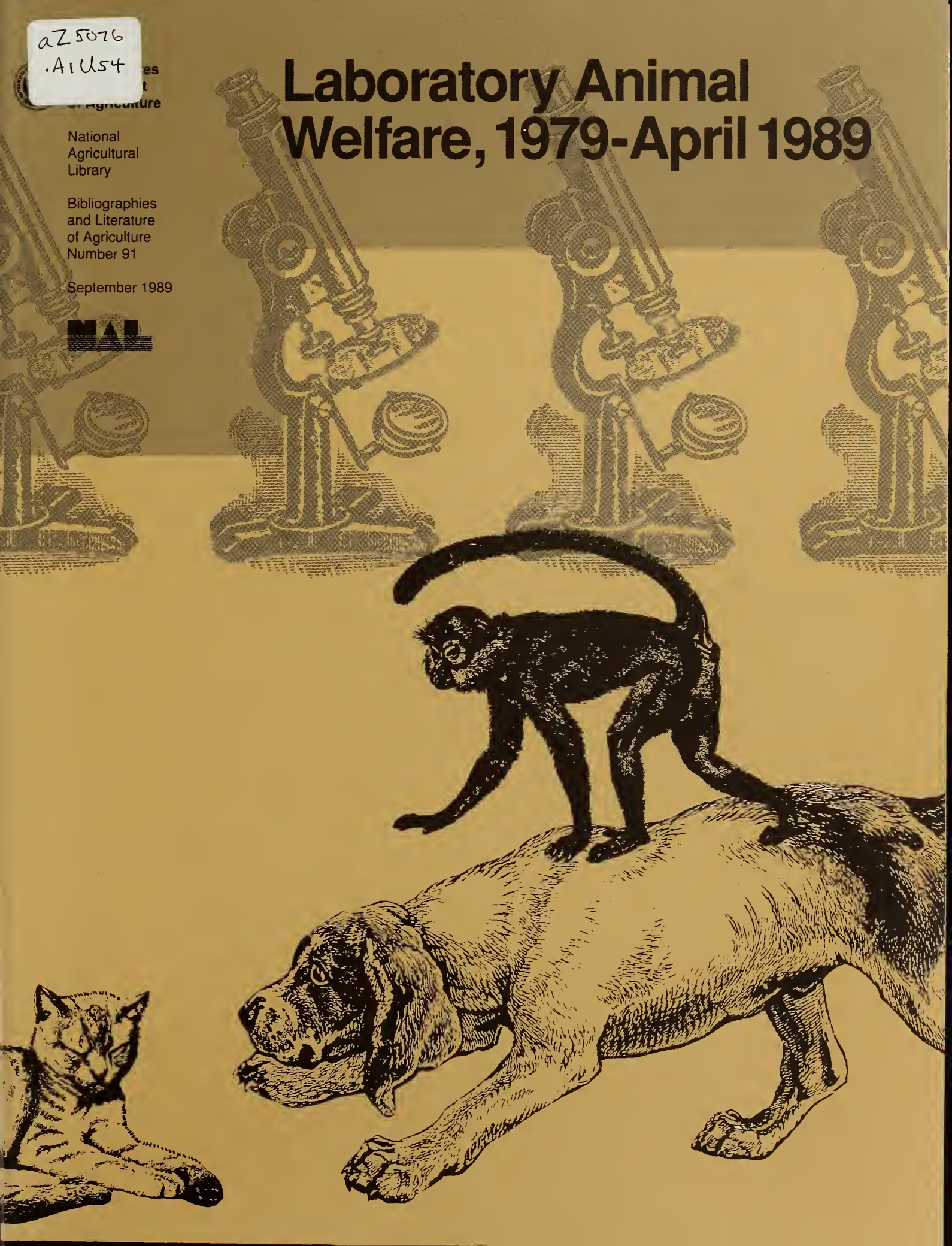
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Laboratory Animal Welfare, 1979-April 1989





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Laboratory Animal Welfare, 1979-April 1989

Compiled and Edited by
Charles N. Bebee
National Agricultural Library

September 1989

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by Charles N. Bebee

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Regardless of the size of the cage, dogs did not exercise unless human beings were present in the room. There were no significant differences in laboratory findings among dogs in the 4 groups. This moderate exercise program had no demonstrable effects. Similarly, continuous cage housing, without a formal exercise program, could not be determined to be detrimental to the physiologic or health status of dogs. American journal of veterinary research. Aug 1988. v. 49 (8). p. 1298-1301. Includes references. (NAL Call No.: DNAL 41.8 AM3A).

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Assessment of discomfort in gallstone-bearing mice: a practical example of the problems encountered in an attempt to recognize discomfort in laboratory animals.
LBANA. Beynen, A.C. Baumans, V.; Bertens, A.P.M.G.; Havenaar, R.; Hesp, A.P.M.; Zutphen, L.F.M. van. Essex : Laboratory Animal Science Association. Abstract: In order to obtain practical experience on the recognition, assessment and evaluation of discomfort in laboratory animals, the degree of discomfort was studied in gallstone-free and gallstone-bearing mice. Out of nine parameters to which scores were assigned per individual mouse, only the response to palpation of the right hypochondrium was found to score significantly higher in gallstone-bearing mice. That is, the incidence of squeaking and the magnitude of muscular contractions were significantly higher in these animals compared with the gallstone-free mice. The stance of the gallstone-bearing mice also tended to be abnormal, although the difference between gallstone-free and gallstone-bearing animals did not reach statistical significance. Although this study does not prove unequivocally that the induction of gallstones per se causes discomfort or pain in mice, we tentatively conclude that it does. We feel that this should be taken into account in any projected work in which gallstone induction in animals may occur. There was considerable between-assessor variation in the assignment of scores to the variables used to assess discomfort, including the response to palpation. It is concluded that the selection of parameters and the experience and/or attitude of the assessor are critically important when the magnitude of discomfort, if any, is assessed in experimental animals. Laboratory animals. Jan 1987. v. 21 (1). p. 35-42. ill. Includes references. (NAL Call No.: DNAL QL55.A1L3).

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returned to control levels by day 1, correlating inversely with splenic natural killer activity. This study indicates that stress resulting from transportation causes a short-term decrease in the splenic natural killer cell activity of mice, and this decrease may be related to the increased plasma corticosterone levels induced by the stressful event. We conclude that mice should be stabilized at least 24 hours before experiments involving the natural killer cell system are begun. Laboratory animal science. Apr 1988. v. 38 (2). p. 148-151. Includes references. (NAL Call No.: DNAL 410.9 P94).

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The effects of pentobarbital, fentanyl-droperidol, ketamine-xylazine and ketamine-diazepam on noxious stimulus perception in adult male rats.

LBASA. Wixson, S.K. White, W.J.; Hughes, H.C. Jr.; Marshall, W.K.; Lang, C.M. Cordova, Tenn. : American Association for Laboratory Animal Science. Abstract: The increased use of rats for laboratory studies has increased the urgency for a better understanding of their

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perception of painful or noxious stimuli and the means of obtunding such stimuli. Four different injectable drugs, pentobarbital, fentanyl-droperidol (Innovar-Vet), ketamine-xylzine and ketamine-diazepam, were evaluated in this study. Unlike previous studies in rodents, this study has quantitated noxious stimulus perception following a temporal sequence of observations. Results showed the greatest inhibition of noxious stimulus perception with Innovar-Vet, lesser inhibition with ketamine-xylzine and ketamine-diazepam, and the least obtunding of nociception with pentobarbital. Results of this study also suggested that a spatial orientation, similar to that present in man, exists within the CNS of rats for receipt of noxious stimulation. *Laboratory animal science*. Dec 1987. v. 37 (6). p. 731-735. Includes references. (NAL Call No.: DNAL 410.9 P94).

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The behavior of swine and its relevance to cardiovascular research.

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CTVSD. Dantzer, R. Raab, A. The Hague : Martinus Nijhoff. Current topics in veterinary medicine and animal science. Paper presented at the "Seminar on the Social Space for Domestic Animals," January 10-11, 1985, Brussels.~ Literature review. 1985. v. 35. p. 3-14. Includes references. (NAL Call No.: DNAL SF600.C82).

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LBANA. Beynen, A.C. Baumans, V.; Bertens, A.P.M.G.; Havenaar, R.; Hesp, A.P.M.; Zutphen, L.F.M. van. Essex : Laboratory Animal Science Association. Abstract: In order to obtain practical experience on the recognition, assessment and evaluation of discomfort in laboratory animals, the degree of discomfort was studied in gallstone-free and gallstone-bearing mice. Out of nine parameters to which scores were assigned per individual mouse, only the response to palpation of the right hypochondrium was found to score significantly higher in gallstone-bearing mice. That is, the incidence of squeaking and the magnitude of muscular contractions were significantly higher in these animals compared with the gallstone-free mice. The stance of the gallstone-bearing mice also tended to be abnormal, although the difference between gallstone-free and gallstone-bearing animals did not reach statistical significance. Although this study does not prove unequivocally that the induction of gallstones per se causes discomfort or pain in mice, we tentatively conclude that it does. We feel that this should be taken into account in any projected work in which gallstone induction in animals may occur. There was considerable between-assessor variation in the assignment of scores to the variables used to assess discomfort, including the response to palpation. It is concluded that the selection of parameters and the experience and/or attitude of the assessor are critically important when the magnitude of discomfort, if any, is assessed in experimental animals. Laboratory animals. Jan 1987. v. 21 (1). p. 35-42. ill. Includes references. (NAL Call No.: DNAL QL55.A1L3).

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Minneapolis, Minn. : Distributed by University of Minnesota Media Distribution, c1986. Title from title screen.~ Producer/director Brad Mercil.~ Tape date 2/11/86. 1 videocassette (VHS) (45 min.) : sd., col. ; 1/2 in. (NAL Call No.: DNAL Videocassette no.325).

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